

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 23295

Luminaire Tested: **R1-WB-2T5-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23295
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WB-2T5-22
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH
WHITE BAFFLE
Light Source: TWO SYLVANIA 24 WATT T5HO LAMPS

FP24/841. LUMEN RATING = 1750 LMS.

Ballast/Driver: -

Summary

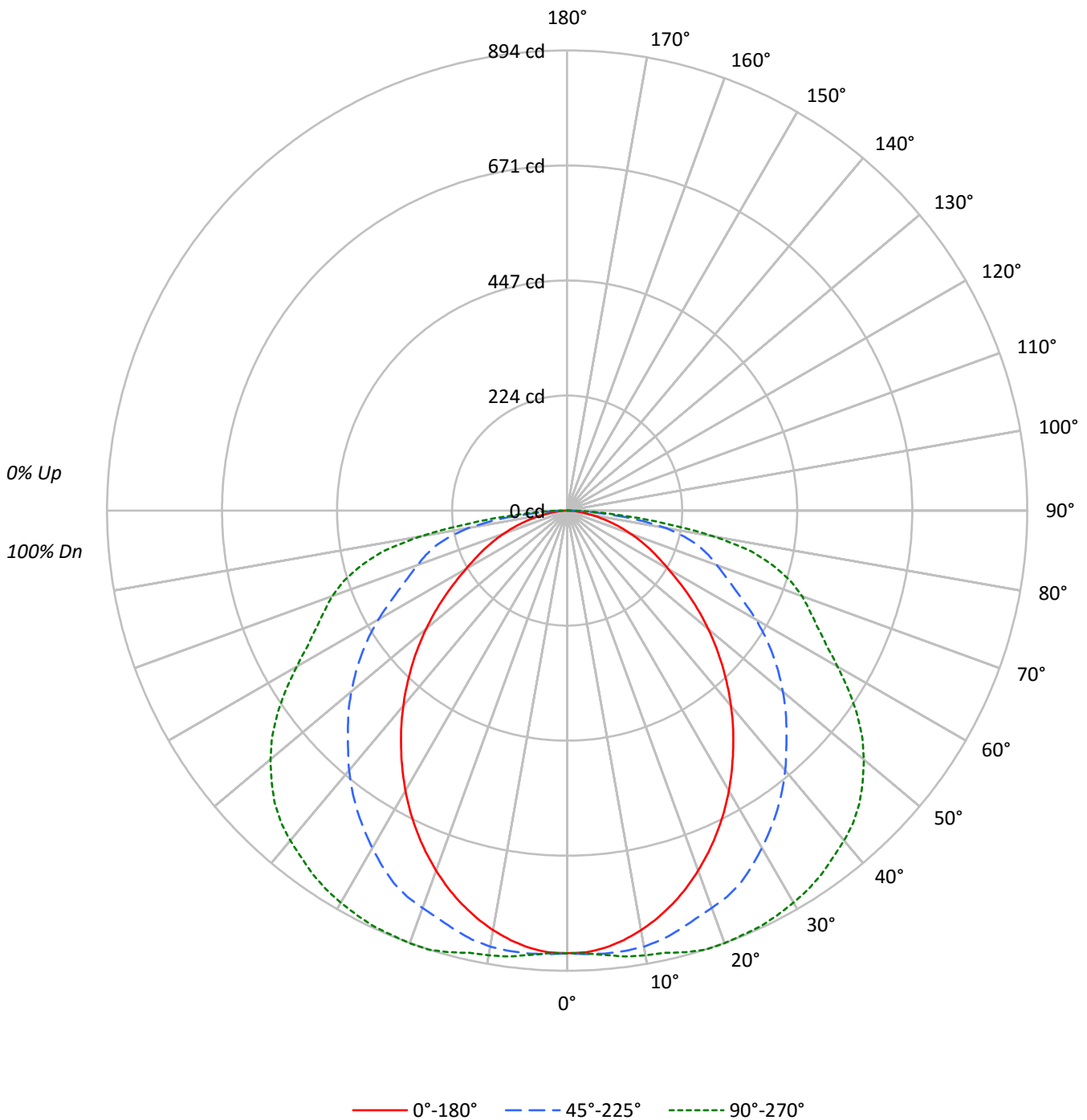
Lumens per Lamp: 1750 (2 lamps)
Luminaire Lumens: 2729.0 lumens
Efficiency: 78.0%
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.52 / 1.43
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	78
1	84	80	76	73	82	78	75	72	75	72	69	72	69	67	69	67	65	64
2	76	69	63	58	74	67	62	58	65	60	56	62	58	55	60	57	54	52
3	69	60	53	48	67	59	53	48	57	51	47	54	50	46	52	48	45	43
4	63	53	46	40	61	52	45	40	50	44	40	48	43	39	46	42	38	37
5	58	47	40	35	56	46	40	34	45	39	34	43	38	34	42	37	33	32
6	53	43	35	30	52	42	35	30	40	34	30	39	34	29	38	33	29	27
7	49	38	31	27	48	38	31	26	37	31	26	35	30	26	34	30	26	24
8	46	35	28	24	45	35	28	24	33	28	23	32	27	23	32	27	23	22
9	43	32	26	21	42	32	25	21	31	25	21	30	25	21	29	24	21	19
10	40	30	23	19	39	29	23	19	28	23	19	28	23	19	27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2485	2485	2485
5°	2473	2506	2515
10°	2430	2524	2574
15°	2368	2523	2657
20°	2289	2527	2751
25°	2199	2545	2841
30°	2097	2526	2935
35°	1985	2509	3041
40°	1869	2487	3157
45°	1744	2462	3284
50°	1608	2460	3383
55°	1461	2459	3461
60°	1310	2447	3507
65°	1214	2450	3671
70°	1108	2613	4105
75°	974	2949	4643
80°	789	3215	4825
85°	594	2457	3531



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	82.1	3.0	2.3
10°-20°	237.9	8.7	6.8
20°-30°	365.2	13.4	10.4
30°-40°	444.7	16.3	12.7
40°-50°	469.1	17.2	13.4
50°-60°	432.7	15.9	12.4
60°-70°	351.2	12.9	10.0
70°-80°	262.8	9.6	7.5
80°-90°	83.3	3.1	2.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	685.1	25.1	19.6
0°-40°	1129.9	41.4	32.3
0°-60°	2031.8	74.5	58.1
0°-90°	2729.0	100.0	78.0
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2729.0	100.0	78.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	852	857	864	866	867	81
15°	791	812	843	873	888	223
25°	690	724	798	859	891	317
35°	563	612	711	809	862	352
45°	427	478	602	738	803	329
55°	290	337	488	625	687	260
65°	178	207	358	484	537	176
75°	87	119	264	377	416	93
85°	18	35	74	97	106	22
90°	1	1	4	8	9	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.0	860.0	860.0	860.0	860.0
2.5°	859.1	860.6	862.5	861.9	860.9
5°	852.4	856.6	863.9	866.4	866.8
7.5°	841.8	850.2	862.9	871.2	873.7
10°	827.9	840.4	860.1	873.1	877.2
12.5°	811.0	827.8	853.7	871.4	880.0
15°	791.3	811.6	843.1	873.1	888.1
17.5°	769.0	793.5	831.1	876.2	894.5
20°	744.3	772.0	821.5	874.6	894.4
22.5°	717.8	749.0	811.9	867.1	892.1
25°	689.6	723.8	798.0	859.3	890.8
27.5°	659.9	696.6	778.3	849.9	885.6
30°	628.3	668.8	757.0	838.0	879.5
32.5°	595.6	640.9	734.7	824.3	872.2
35°	562.6	611.6	711.1	809.2	862.0
37.5°	529.2	580.4	686.0	791.4	848.9
40°	495.3	547.2	659.2	773.4	836.9
42.5°	461.0	512.3	630.1	756.6	822.5
45°	426.6	477.6	602.4	738.5	803.4
47.5°	392.3	442.8	576.0	716.2	778.9
50°	357.6	406.7	547.2	689.2	752.4
52.5°	323.5	371.1	517.9	658.4	722.5
55°	289.9	337.0	488.0	624.9	686.9
57.5°	256.8	302.9	456.6	588.9	647.5
60°	226.6	268.5	423.4	551.0	606.7
62.5°	201.0	235.5	389.4	514.9	568.3
65°	177.5	206.9	358.2	484.0	536.8
67.5°	154.1	181.7	331.9	459.1	510.4
70°	131.1	158.5	309.2	436.6	485.8
72.5°	109.1	138.1	287.9	410.7	454.9
75°	87.2	119.3	264.1	376.7	415.8
77.5°	66.4	102.1	233.0	333.5	366.9
80°	47.4	84.6	193.2	272.0	289.9
82.5°	31.4	62.4	137.8	182.1	190.6
85°	17.9	35.4	74.1	96.8	106.5
87.5°	6.7	11.7	26.0	35.0	37.0
90°	0.6	1.2	4.5	7.7	8.6

(END OF REPORT)